

DG Interconnection Testing and Certification

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DG Certification

Equipment tested and approved (e.g. listed) by an accredited, nationally recognized testing laboratory as having met both the Type Testing (B2) and Production Testing (B3) requirements is considered Certified Equipment for purposes of interconnection. Certification may apply to either a pre-packaged system or an assembly of components that address the necessary functions.

Non-certified equipment must also be tested for all applicable interconnection requirements. These tests may be performed by the manufacturer. Test results must be submitted to the EC for review and approval.

T+C Sources

- UL 1741 *Static Inverters and Charge Controllers for Use in Photovoltaic Power Systems*, May 1999
- IEEE 929 *Recommended Practice for Utility Interface of Photovoltaic (PV) Systems*, Draft 11c, Dec. 1999
- New York Standardized Interconnection Requirements, May 1999

T+C Appendix B Outline

- Type Testing
 - Inverters/Synchronous/Induction
 - Anti-Islanding/Non-Export
- Production Testing
- Commissioning Testing
 - Systems Qualifying/not Qualifying for Simple Interconnection
 - Certified/Non-Certified
- Periodic Testing

T+C Appendix C Outline

- Type Test Procedures
 - UL 1741
- Anti-Island Test Procedure
 - IEEE 929
- Non-Export Test Procedure
 - Relay/function
- Production Test Procedure
 - UL 1741

T+C Status

- Inverter testing well established by UL1741/IEEE 929
 - Anticipate changes to UL 1741
 - Correct discrepancies w/ IEEE 929
 - Expand scope beyond PV, inverters
- No specific interconnection-related tests for Synchronous/Induction equipment
- Some procedures incomplete (Non-export function)
- Will coordinate with national standards efforts (IEEE P1547)
- “Interim” Process